# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 05/08/2019 10:51 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/02/2019 10:47 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125306 | 0 | 1.59 | 125383 | 1.60 |
| Blue | F | SSC | 125000 | 125208 | 0 | 1.52 | 126029 | 1.52 |
| Blue | E | FITC | 16694 | 16324 | -3 | 2.66 | 356 | 19.56 |
| Blue | D | PE | 32792 | 32274 | -2 | 1.84 | 701 | 14.09 |
| Blue | B | PerCP-Cy5-5 | 44451 | 43937 | -2 | 3.58 | 1186 | 19.50 |
| Blue | A | PE-Cy7 | 33645 | 33344 | -1 | 5.88 | 644 | 39.07 |
| Red | C | APC | 47008 | 46685 | -1 | 2.44 | 1649 | 12.13 |
| Red | A | APC-Cy7 | 32298 | 31341 | -3 | 2.40 | 841 | 11.68 |
| Violet | B | V450 | 8961 | 8571 | -5 | 4.31 | 522 | 12.17 |
| Violet | A | V500 | 32726 | 31900 | -3 | 4.13 | 752 | 10.03 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 21388 | 3.29 | 602 | -11 | N/A | N/A | Pass |
| Blue | F | SSC | 56919 | 1.12 | 543 | -25 | N/A | N/A | Pass |
| Blue | E | FITC | 65 | 62.06 | 539 | -24 | 0.0213 | 95 | Pass |
| Blue | D | PE | 146 | 47.38 | 547 | -19 | 0.1790 | 267 | Pass |
| Blue | B | PerCP-Cy5-5 | 216 | 47.69 | 643 | -28 | 0.0104 | 37 | Pass |
| Blue | A | PE-Cy7 | 121 | 96.37 | 695 | -31 | 0.0125 | 14 | Pass |
| Red | C | APC | 391 | 25.98 | 590 | -23 | 0.0265 | 182 | Pass |
| Red | A | APC-Cy7 | 187 | 28.15 | 564 | -21 | 0.0064 | 998 | Pass |
| Violet | B | V450 | 98 | 43.43 | 469 | -17 | 0.0536 | 1759 | Pass |
| Violet | A | V500 | 116 | 29.15 | 479 | -17 | 0.0258 | 398 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.39 | -32.17 | 1.00 |
| Blue | 20.35 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.52 |
| Red | 15.72 | 13.60 - 20.40 | N/A | N/A | 29.79 | 30.11 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9500

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments